

# The E-Z Remote

## User manual

## **The Device**

The E-Z Remote is a device which can control several electronic devices. Originally the remote is designed for Tyler who has cerebral palsy but with slight modifications to the user interface it can serve any person with physical disabilities. The E-Z Remote comes with everything necessary to operate it.

### *Enclosure*

It is a 9 by 6.5 by 3 (inches) plastic box. It contains the main PCB (the printed circuit board), speakers, two compartments for batteries and a side lit acrylic display on the top.

### *Input buttons*

The E-Z Remote has a simple user interface; the user can control everything with the help of the two head buttons.

### *Power adapter*

The device works off a 9 V battery or a power adapter. When the power adapter is used, the battery is shut off by itself.

### *X-10 modules*

The X-10 modules are used for the RF (radio frequency) – X10 communication. There is one X-10 receiver and six other X-10 units, the X-10 receiver receives RF signals from the RF transmitter i.e. enclosed in the box and further communicates with the other X-10 units via the power line to power on/off a specific wall outlet.

### *The Menu*

A clear and easy menu will be provided to help the user to browse through the options.

## **Set up:**

1. The installer will record and save the IR (infrared) signal for the TV channels the user wants and IR signal for any other device which the user wants to operate using the record button placed on the enclosure box.
2. All the X-10 modules should be plugged in the desired wall outlets.
3. Plug the head buttons in the enclosure box.
4. Place a 9 V battery in the battery compartment.
5. Or you can use the power adapter to power the remote.
6. Power on the remote from using the power button on the enclosure.

The remote is ready to use. Now follow the menu to browse through the options, an audio output will follow every click and let the user know where he/she is in the menu. Press the right button

to go to the next option and left button to go to the previous option. A long press on the left button will allow the user to enter a sub menu and a long press on the right button will let the user go back to exit the sub menu.

### The menu:

	Main Menu	Sub-Menu	Sub-Menu1	Sub-Menu2
1.	TV	TV on/off		
		DVR on/off		
		Channel Categories	Sports	ESPN/ESPN2/WGN/Fox North/TBS
			Cartoon	Boomerang/Disney/Nickelodeon/Nickelodeon2/Family
			Outdoors	Weather/Radar/Discovery/History/Travel
			Local	Fox North/KFYR/ABC
		Channel Number	0 – 9	
		TV Volume up		
		TV Volume down		
2.	X-10	A1		
		...		
		A5		
3.	Radio	Next Station		
		Reset		
		Volume up		
		Volume down		
4.	LED Control	On/Off		
		Pattern 1		
		Pattern 2		
		Blue		
		Purple		
		Green		
5.	Device Volume	Volume up		
		Volume down		
6.	Comments	Thirsty	I am thirsty.	
		Snack	I want a snack.	
		Watching something		
		Uncomfortable		
		I like the show		

## Technicians Troubleshooting

Problem	What to Do
E-Z Remote is unresponsive	<ul style="list-style-type: none"><li>• Make sure unit is turned on</li><li>• Make sure button jacks are properly connected to main enclosure</li><li>• Replace battery if necessary</li><li>• If using the power adapter, make sure it is connected properly to both enclosure and the wall outlet</li></ul>
E-Z Remote doesn't control X10 module	<ul style="list-style-type: none"><li>• Make sure X10 modules are set to the correct channel</li><li>• Make sure X-10 modules are connected properly in the wall outlet</li></ul>
E-Z Remote doesn't control IR device	<ul style="list-style-type: none"><li>• Reprogram that option for the IR device using the program button on the enclosure</li></ul>
E-Z Remote is not outputting audio	<ul style="list-style-type: none"><li>• Try turning the device off and then on again</li><li>• Check the speaker</li><li>• Replace battery if necessary</li></ul>
Radio is not working	<ul style="list-style-type: none"><li>• Check the radio speaker</li><li>• Try repowering the remote</li></ul>
The LED display not working	<ul style="list-style-type: none"><li>• Check the LEDs</li><li>• Reset the remote</li></ul>